



## A1118-61

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**A1118-61**

N. Lund, S. Brandt, and A. J. Castro-Tirado, communicate, on behalf of the Granat WATCH collaboration (Danish Space Research Institute, Lyngby, and Space Research Institute, Moscow): "The transient x-ray pulsar A1118-61, originally discovered by the Ariel V satellite in 1974, has been observed again by the WATCH all-sky monitor on Granat. The source was observed above the detection limit (about 100 mCrab) between Jan. 28 and 30. The peak flux in the 8- to 20-keV band was 500 mCrab. The period of the pulsar was determined as 406.4 +/- 0.2 s (Ariel V obtained 405.3 +/- 0.6 s). A1118-61 has been associated with the Be star He 3-640 (Henize 1976, Ap.J. Suppl. 30, 491). Follow-up observations are encouraged."

**1992 BC**

Improved orbital elements from MPC 19688:

T = 1992 Apr. 1.122 TT                      Peri. = 77.000  
 e = 0.35110                                      Node = 123.546      2000.0  
 q = 0.92072 AU                                  Incl. = 14.304  
 a = 1.41890 AU              n = 0.583144      P = 1.69 years

1992 TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
Feb. 8	10 07.42	+55 09.7	0.105	1.068	139.2	37.1	
15.8							
10	10 29.17	+61 29.9	0.104	1.059	132.0	43.8	
15.9							
12	11 02.00	+67 31.3	0.103	1.050	124.8	50.6	
16.1							
14	11 53.9	+72 43.5	0.105	1.040	117.8	57.1	
16.3							
16	13 14.9	+76 20.5	0.108	1.032	111.2	63.3	
16.5							
18	14 59.7	+77 29.7	0.112	1.023	105.1	68.9	
16.7							
20	16 33.9	+76 11.0	0.117	1.014	99.5	73.9	
17.0							
22	17 37.6	+73 28.4	0.123	1.006	94.6	78.4	
17.2							
24	18 17.8	+70 17.7	0.129	0.998	90.3	82.3	
17.4							
26	18 44.09	+67 05.5	0.136	0.991	86.4	85.7	
17.7							
28	19 02.25	+64 02.5	0.144	0.984	83.1	88.6	
17.9							

Mar.	4	19	29.84	+57	20.3	0.164	0.967	76.6	93.9
18.3									
	9	19	45.91	+51	50.7	0.185	0.952	72.1	97.3
18.7									
	14	19	57.29	+47	15.3	0.206	0.940	69.0	99.1
19.0									
	19	20	06.66	+43	19.1	0.228	0.931	67.2	99.8
19.3									

1992 February 12

(5448)

Daniel W. E. Green